MR1315BUA

FULL iPod® CONTROL
MP3-COMPATIBLE
DIGITAL MEDIA RECEIVER
WITH USB AND SD MEMORY CARD PORTS
AND FRONT PANEL AUX INPUT

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FULL iPod® CONTROL
MP3-COMPATIBLE DIGITAL MEDIA RECEIVER
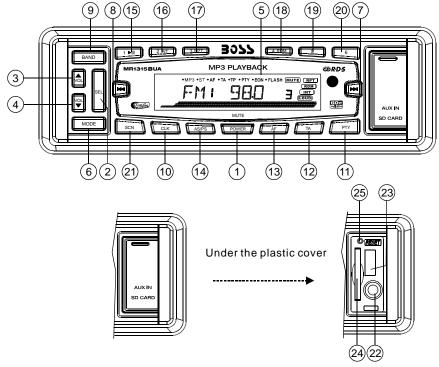WITH USB AND SD MEMORY CARD PORTS
AND FRONT PANEL AUX INPUT

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LOCATION AND FUNCTION OF CONTROLS

Under the plastic cover

1. POWER BUTTON
When the unit is powered off, it will switch on by pressing any button except the RELEASE button.

2&3&4. SEL BUTTON (Select) AND VOL CONTROL BUTTON
a) Press the SEL button briefly, it is activated as selecting each mode of E. VOL.
-> VOLUME ->BASS ->TREBLE -> BALANCE -> FADER ->
When selecting a desired audio mode, press the VOL+ or VOL- button to adjust the audio effect.
In each mode, the waiting time is about 5 seconds, and when the waiting time is over, it returns to the last display mode .
The control mode of E.VOL is operated with following numeric display.
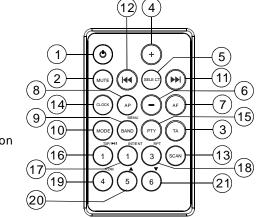- VOL: (MIN) 01,....................46,(MAX).
- BASS/TRE: -07, -06,…,00,…+06,+07
- BAL: 0LR9, 1LR9, …, 9LR9,..., 9LR1, 9LR0
- FAD: 0FR9,1FR9, …, 9FR9,..., 9FR1, 9FR0
b) Press SEL button and hold for more than 2 seconds to turn on TA SEEK/TA ALARM mode, then press SEL button briefly and repeatedly to select PI SOUND/PI MUTE, RETUNE L/RETUNE S, MASK DPI/MASK ALL, BEEP ON/BEEP OFF, USER SET (FLAT/CLASSIC/ROCK/POP),VOL LAST/VOL DEFA , STEREO/MONO(in RADIO mode), LOUD OFF/LOUD ON,DX/LOCAL (in RADIO mode), CLK ON/CLK OFF, CLK 12/24 mode. After selecting the desired mode, press the VOL- or VOL+ button to select one setup item of the desired mode.

OPERATION OF REMOTE CONTROL

1. Power On/Off.

2. Mute Button

3. Loudness Button

4. Audio Level & Menu UP(+) Button

5. SEL/MENU Button

6. Audio Level & Menu Down(-) Button

7. MO/ST Button

8. A.P Button

9. Band Button
During radio mode, Press and hold this button and press the pass word:543 (the pass word can not be reset) to the Text Mode. then press the VOL+ button to select as: EUROPE->MID EAST->AUST->RUSSIA ->AMERICA1->AMERICA2 ->AMERICA3Frequency Coverage and then press SEL button to confirm the selecting mode and switch on the unit again.
During IPOD mode, press BAND button to MEMU select, press 5 and 6 to up and down, and then press 2 to confirm the selecting.

10. Mode Button

11.Tune/Seek Up And Track Skip Up/FF Button

12.Tune/Seek Down And Track Skip Down/REW Button

13.SCAN Button

14. Clock Display /Setting Button

15. LOC/DX Button

16. CD Track TOP/>||/Radio Preset 1

17. CD Track INT/Radio Preset 2

18. CD Track RPT/Radio Preset 3

19. CD Track RDM/Radio Preset 4

20. Radio Preset 5

21. Radio Preset 6

Specifications

Supply voltage   : 12V DC(11V-15V)
Current consumption   : Less than 10A
Audio Signal Output   : 2ch line out
Characteristics   : (1)   Frequency Response: 20Hz-20KHz
                                (2)   S/N Ratio: 50 dB(JIS)

	(Europe)	(U.S.A.)
	FM	FM
Frequency Coverage:	87.5 to 108Mhz	87.5 to 107.9Mhz
IF	10.7Mhz	10.7Mhz
Sensitivity (S/N = 30dB) :	20dBu	20dBu
	AM	AM
Frequency Coverage:	522 to 1620Khz	530 to 1710Khz
IF	450Khz	450Khz
Sensitivity (S/N = 20dB) :	45dBu	45dBu

NOTE:

Specifications and design are subject to modification, without notice,
due to improvements in technology.

1) TA SEEK/TA ALARM:
    TA SEEK mode: when newly tuned station does not receive TP information for 5
    seconds, the radio retunes to next station which has a different PI to the last station,
    but has the TP information.
    When TP information gets lost at the current station for retune time which is set by
    RETUNE SHORT(90 seconds) or RETUNE LONG(150 seconds), the radio starts to
    retune to next same PI station. When same PI station does not receive in 1 cyclic
    search, the radio retunes to next station with TP information.
    TA ALARM mode: when this mode is selected, any automatic retune mode is not
    activated. Only double beep sound(ALARM) will be heard.
    When newly tuned station does not have TP information for 5 seconds, beeps are
    sounded.
    When TP information gets lost at the current station for retune time, the beep sound
    will be heard.
    When newly tuned station has no RDS signal, PI SEEK is suppressed .
2) PI SOUND/ PI MUTE:
    PI SOUND mode: if a car cruises between buildings that could cause reflecting
    signals, a phenomenon may occur, due to different PI codes being received from the
    same AF source. when different PI sounds (DIP) are heard occassionally, this will
    happen for less than 1 second.
    PI MUTE mode: under above same situation, a mute sound will be heard for less
    than1second.
3) RETUNE L / RETUNE S:
    The initial time of automatic TA search or PI SEARCH mode is selected.
    When PI information is not received for retune interval , the radio starts to retune to
    next same PI station.
    When same PI station does not receive 1 cyclic search, the radio goes to last station
    and waits for 4-5 minutes until PI code is received.
    RETUNE L mode: selected as 150 seconds.
    RETUNE S mode: selected as 90 seconds.
4) MASK DPI/MASK ALL:
    MASK DPI mode: masks only the AF which has different PI.
    MASK ALL mode: masks the AF which has different PI and NO RDS signal with high
    field strength.
5)BEEP ON/BEEP OFF
    BEEP ON mode: The beep is generated when any key is pressed.
    BEEP OFF mode: The beep sound is disabled.
6) VOL LAST/VOL DEFA
    VOL LAST: The radio switches on at the actual volume it had when it was last
             switched off.
    VOL DEFA: After pressing SEL button, AVOL will be displayed. Then you can
             pre-select a constant switch-on volume by using the VOL knob.
7)CLK ON/OFF
    CLK ON: Clock will always show on the display when power off.
    CLK OFF: Clock will disappear on the display when power off.

5. LCD Display

6. MODE BUTTON
  Press it to select RADIO, CARD(after inserting MMC/SD card), USB(after inserting
  USB stick) ,IPOD (after connect IPOD cable) and AUX mode.

7&8. TUNE, SEEK, TRACK, SKIP UP / DOWN BUTTONS
 a) During RADIO mode:
    Press the >>| or |<< button briefly to manual tune up/down for the desired radio
    station frequency step by step.
    Press and hold the >>| or |<< button for longer 0.5 seconds, to automatically tune
    up/down for the radio station frequency of strong signal.
 b) During SD/MMC & USB or IPOD mode:
    Press the >>| button briefly to play next track.
    Press the |<< button briefly to play the previous track.
    Press the >>| or |<< button and hold to skip forwards or backwards, release to
    resume normal playback.

9. BAND BUTTON
    During radio mode, press the BND button briefly to select the radio broadcasting
    band you would like to hear. The AM/FM band is toggled cyclically through the
    tuning bands: ->FM 1-> FM 2 -> FM 3 -> MW 1->MW 2 ->.
    Press and hold this button and press the pass word:543(the pass word can not be
    reset) to the Test Mode then press the VOL+ button to select as: EUROPE-> MID EAST
    -> AUST-> RUSSIA ->AMERICA1->AMERICA2->AMERICA3Frequency Coverage
    and then press SEL button to confirm the selecting mode and switch on the unit again.

10. CLOCK BUTTON
    Press the CLK button briefly to display time for 5 seconds on the display, and then
    returns to its previous display unless the button is pressed again.
    Then press the CLK button and hold for more than 1 seconds until the real time
    flashes on the display. Then you can adjust HOUR or MINUTE by pressing the VOL-
    or VOL+ button .

11. PTY (PROGRAM TYPE) BUTTON
    Press it briefly and repeatedly to select one of the following mode:
        POP M- - NEWS
    While selecting PTY TYPE, its selection is implemented by preset buttons as
    described in preset key. (press one of the 6 preset buttons shortly and repeatedly
    to select the PTY TYPE in the preset button) When POP M or NEWS is on, the
    previous PTY program and PTY word is displayed on LCD. If there are no keys
    entered for 2 seconds, previously selected PTY is searched. During 1 loop, if
    desired PTY is not found, NO PTY is flashed, then return to previous normal radio
    and PTY icon goes off.

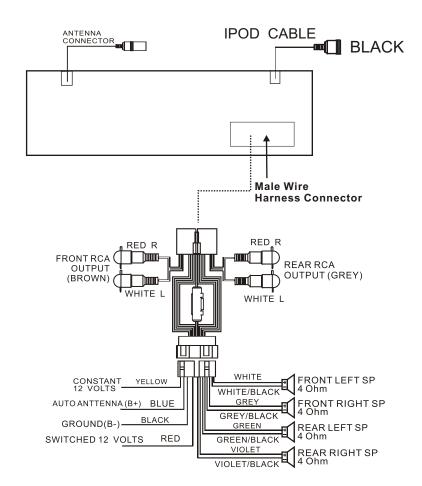12. TA [TRAFFIC ANNOUNCEMENT] BUTTON
    When pressing this button, TA mode is switched on or off.
    When TA mode is on(TA is displayed on LCD), it will begin to seek TA station and TA
    SEEK will be displayed on LCD for a while.
    When traffic announcement is transmitted:
 1). If the unit is in MMC/SD, USB, IPOD mode, it will switch to radio mode temporarily.
 2). If volume level is below 20, volume level is raised to 20, and returns to its previous
     mode and volume level when the traffic announcement is over.
     If volume is adjusted during traffic announcement, only the traffic announcement
     volume is valid.
  *   TA interruption function:
     The current traffic announcement is cancelled by pressing this key. But the TA mode
     will not be off.

Wiring connection diagram

TROUBLE SHOOTING

Before using the check list please make all the connections first.
If you still have questions after going through the checklist, please consult
your local customer service representative.

Common Symptoms	Cause	Solution
There is no power.	The car ignition is switched off.	If the power supply is properly connected to the car accessory, switch the ignition key to " ON " or " ACC " .
	The fuse has blown.	Replace another fuse according to the wiring diagram.
There is no sound.	The volume control is set too low.	Turn up the volume properly.
	The device has not been correctly connected.	Check the power and earth connection according to the wiring diagram.
The operation keys do not work	The built-in microcomputer is not operating properly due to noise	Switch the device off and on again. Or press the RESET button to resume the program.
No radio reception.	The antenna cable is not connected.	Insert the antenna cable firmly into the antenna socket of the device.
In automatic search mode the radio does not stop at a trans-mitting station.	The transmission signals are too weak.	Tune in to a radio station manually.

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*   When TA is on, SEEK, (SCAN), AUTO MEMORY function can be received or saved
only when traffic program identification code has been received.
When TA is ON, traffic program identification code is not received during specified time.

13. AF [ALTERNATIVE FREQUENCIES] BUTTON
When pressed briefly, AF switching mode is selected and the state of AF switching
mode is displayed by AF segment in display.
Segment off: AF switching mode off.
Segment on: AF switching mode on, and has RDS information.
Segment flashing: AF switching mode on, but RDS information is not received yet.
When AF switching mode is selected, the radio checks the signal strength of AF all
the time. The interval of checking time of each AFs depends on the signal strength
of current station, from a few minutes for a strong station to a few seconds for weak
station. Every time that new AF is stronger than current station, it switches over to
that frequency for very short time, and NEW FREQUENCY is displayed for 1-2
seconds.
Because the mute time of AF switching or checking time is very short, it is almost
inaudible in case of normal program.
During FM mode, when AF is on, SEEK, (SCAN), AUTO-MEMORY function can only
receive and save RDS program.

14. AS/PS BUTTON (Auto-storage /Preset scan)
During radio mode:
1) When pressing and holding for more than 1 second, the radio searches from the
current frequency and checks the signal strength level until 6 station are found. And
then the 6 stations are preset to the corresponding preset memory numbered bank.
The auto-storage operation is implemented in each selected band. When the
auto-storage operation is finished, the radio executes the Preset scan.
2) When briefly pressing, the radio searches for each preset station in the current
band and holds at that preset number for 5 seconds while releasing mute, and then
searches again.
During SD/MMC or USB mode:
Press the AS/PS button, this activates TRACK SEARCH mode:
In TRACK SEARCH mode, the LCD will display TRK T "0" and flashes the biggest
digit 0 that the SD/MMC card or USB stick contains.
Then press the VOL+ or VOL- button to select the number of the flashing digit from
0 ~ 9. Then press SEL button to confirm the number and flash next smaller digit 0.
With the same means, select the number of the flashing digit with VOL+/-.
After finishing selecting the number of all flashing digit, press SEL button to play
the track of the selected serial number.
Press the AS/PS button twice, this activates TRACK SEARCH mode:
In FIRST CHARACTER SEARCH mode, the LCD will display A--......, If there are
files names its first character A, the ......is the first file name, its first character
is A by the order of A~Z and 0~9; otherwise, the ......is NONE. (If there are some
songs in character A, press the >>I and I<< to select your favourite.)Then press the
VOL+ or VOL- button to select file's first character by the order of A~Z and 0~9.
Press the AS/PS button thrice, this activates TRACK SEARCH mode:
In DIRECTORY SEARCH mode, the LCD will display the root folder(if there is no
root folder, it will find a root folder named ROOT). Then press the VOL+ or VOL-
button to select your desired folder and then press >> | or |<< button to select your
desired track in the folder.

15-20. PRESET STATION MEMORY AND TOP/>||, INT, RPT, RDM BUTTONS
a) During radio mode:
When pressed briefly, these buttons select a preset station directly.If the six buttons
are pressed for more than 2 seconds, the station currently being listened to is
memorized into the selected preset button.
b) During SD/MMC & USB mode:
Press the TOP/>|| button briefly to interrupt the playback of the SD/MMC card or
USB stick.
Press again to resume normal playback.
Press the INT button to play the first 10 seconds part of each track, and the LCD will
display INT ON.
Press again to stop scan, while the currently selected track will be played, and the
LCD will display INT OFF.
Press the RPT button to play the current track repeatedly, and the LCD will display
RPT ONE.
Press again to cancel this function, and the LCD will display RPT OFF.
Press the RPT button twice continuously to play the tracks in the current folder
repeatedly and the LCD display will show RPT ABM.
Press the RDM button to play all tracks in random order, and the LCD will display
RDM ON.
Press again to cancel this function, and the LCD will display RDM OFF.
Press the radio preset button 6 and 5 button to move up and down10 tracks at a time.
When the remaining total tracks are less than 10, then both buttons are inactive.
C) During IPOD mode:
 Press the TOP/>|| button briefly to interrupt the playing track.
Press again to resume normal playback.
Press the RPT button to play the current track repeatedly,
Press again to cancel this function.
Press the RDM button to play all tracks in random order.
Press again to cancel this function.
press BAND button to MEMU select, press 5 and 6 to up and down, and then
press 2 to confirm the selecting.

21. SCAN BUTTON
Press the SCAN button to scan the radio frequency. If a valid signal has been
detected, the current frequency will hold and beginblinking for 5 seconds, then
press SCAN again to stop scan and remain on the current frequency; otherwise,
the radio will go on to scan the other radio frequency 5 seconds later.

22.AUX INPUT JACK
Press the mode button to select auxiliary input playing mode. You can connect any
matched external audio device to the auxiliary input jack. Use the volume control to
adjust volume.

23. USB SOCKET
When needing to play the file in the USB stick, insert the USB stick into the USB
socket. The system will change into the USB mode automatically, and then play the
first file in the USB.

24. SD CARD SLOT
When you need to play the file in the MMC/SD card, insert the MMC/SD card into the
MMC/SD card slot. The system will change into the MMC/SD mode automatically,
and then play the first file in the MMC/SD.
Note:
When MMC/SD card and USB stick are both inserted into their slot or socket, the
system will change into the playback mode of the latter one.

25. RESET BUTTON
Before operating the unit for the first time, or after replacing the car battery or
changing the connections. You must reset the unit.
Press this button with a cuspidal object. This operation will erase the clock setting
and some stored contents.

INSTALLATION METHOD

This is an anti-theft installation method.
The main unit has a METAL MOUNTING SLEEVE.
Please connect the wiring, eg, the Power Supply, the Speakers and the Antenna
according to the requirements of this Instruction Manual, then install the metal
mounting sleeve into the car as per the diagram illustrated below.

For optimum anti-skip capability of the unit,
please ensure the metal support strap is
bolted firmly to the car chassis.

Bend the tabs on the metal mounting
sleeve against the DASHBOARD with
a screwdriver.

METAL
SUPPORT STARP

SOFT PLASTIC TRIM RING

DASHBOARD

FRONT PANEL

METAL MOUNTING SLEEVE

The front panel with screws, cannot be push out

To remove the unit out of the metal mounting sleeve,
remove the two plastic first and then insert the two supplied KEYS
into the left and right side slots of the chassis at the same time.